## AMENDMENTS TO THE CLAIMS

 (Currently Amended) A method of processing a dielectric film, the method comprising: providing a substrate having a fluoro-carbon dielectric film deposited thereon, the film having an exposed surface containing contaminants; and

treating the exposed surface with a supercritical carbon dioxide fluid to clean the exposed surface of the contaminants and provide surface termination,  $_{\bullet}$ 

wherein the supercritical carbon dioxide fluid further comprises a solvent, and wherein the solvent comprises an alcohol or a silicon-containing chemical, or a combination thereof.

- (Original) The method according to claim 1, wherein the contaminants comprise CH<sub>x</sub>, H<sub>2</sub>O,
   OH, or HF, or a combination of two or more thereof.
- 3-4. Canceled.
- (Currently Amended) The method according to claim [[4]], wherein the alcohol comprises methanol, ethanol, propanol, or butanol, or a combination of two or more thereof.
- 6. (Currently Amended) The method according to claim [[4]], wherein the siliconcontaining chemical comprises hexamethyldisilane, hexamethyldisilazane,
  dimethylsilyldiethylamine, tetramethyldisilazane, trimethylsilyldimethylamine,
  dimethylsilyldimethylamine, trimethylsilyldiethylamine, bis-trimethylsilyl-urea,
  bis(dimethylamino)methyl silane, bis(dimethylamino)dimethyl silane,
  dimethylaminopentamethyldisilane, or dimethylaminodimethyldisilane, or a combination of two
  or more thereof.

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- (Original) The method according to claim 1, wherein the surface termination comprises C-F functional groups or Si-Me<sub>3</sub> functional groups.
- 8. (Currently Amended) The method according to claim 1, wherein the treating comprises: performing a first treatment wherein the supercritical carbon dioxide fluid contains and the alcohol solvent; and

performing a second treatment wherein the supercritical carbon dioxide fluid contains a the silicon-containing chemical solvent.

- (Original) The method according to claim 8, wherein the alcohol comprises methanol, ethanol, propanol, or butanol, or a combination of two or more thereof.
- 10. (Original) The method according to claim 8, wherein the silicon-containing chemical comprises hexamethyldisilane, hexamethyldisilazane, dimethylsilyldiethylamine, tetramethyldisilazane, trimethylsilyldimethylamine, dimethylsilyldimethylamine, trimethylsilyldiethylamine, bis-trimethylsilyl-urea, bis(dimethylamino)methyl silane, bis(dimethylamino)dimethyl silane, dimethylaminopentamethyldisilane, or dimethylaminodimethyldisilane, or a combination of two or more thereof.
- 11. (Original) The method according to claim 1, wherein the fluoro-carbon film comprises a nitrated fluoro-carbon film.
- 12. (Original) The method according to claim 1, further comprising:

depositing a metal-containing film onto the treated surface of the fluoro-carbon film, wherein the surface termination improves adhesion of the metal-containing film to the fluoro-carbon film.

- 13. (Currently Amended) The method according to claim +012, wherein the metal-containing film comprises tantalum.
- 14. (Currently Amended) A method of processing a dielectric film, the method comprising: providing a substrate having a patterned fluoro-carbon dielectric film formed thereon, the patterned fluoro-carbon dielectric film having one or more vias or trenches, or a combination thereof, and the patterned fluoro-carbon dielectric film having an exposed surface containing contaminants; and

treating the exposed surface with a supercritical carbon dioxide fluid <u>and a solvent</u> to clean the exposed surface of the contaminants and provide surface termination.

- 15. (Original) The method according to claim 14, wherein the contaminants comprise CH<sub>x</sub>, H<sub>2</sub>O, OH, or HF, or a combination of two or more thereof.
- 16. Canceled.
- 17. (Currently Amended) The method according to claim 4614, wherein the solvent comprises an alcohol or a silicon-containing chemical, or a combination thereof.
- 18. (Original) The method according to claim 17, wherein the alcohol comprises methanol, ethanol, propanol, or butanol, or a combination of two or more thereof.
- 19. (Original) The method according to claim 17, wherein the silicon-containing chemical comprises hexamethyldisilane, hexamethyldisilazane, dimethylsilyldiethylamine, tetramethyldisilazane, trimethylsilyldimethylamine, dimethylsilyldimethylamine,

trimethylsilyldiethylamine, bis-trimethylsilyl-urea, bis(dimethylamino)methyl silane, bis(dimethylamino)dimethyl silane, dimethylaminopentamethyldisilane, dimethylaminodimethyldisilane, or a combination of two or more thereof.

- 20. (Original) The method according to claim 14, wherein the surface termination comprises C-F functional groups or  $Si-Me_3$  functional groups.
- 21. (Currently Amended) The method according to claim 14, wherein the treating comprises: performing a first treatment wherein the supercritical carbon dioxide fluid contains an alcohol <u>as the solvent</u>; and

performing a second treatment wherein the supercritical carbon dioxide fluid contains a silicon-containing chemical <u>as the solvent.</u>

- 22. (Original) The method according to claim 21, wherein the alcohol comprises methanol, ethanol, propanol, or butanol, or a combination of two or more thereof.
- 23. (Original) The method according to claim 21, wherein the silicon-containing chemical comprises hexamethyldisilane, hexamethyldisilazane, dimethylsilyldiethylamine, tetramethyldisilazane, trimethylsilyldimethylamine, dimethylsilyldimethylamine, trimethylsilyldiethylamine, bis-trimethylsilyl-urea, bis(dimethylamino)methyl silane, bis(dimethylamino)dimethyl silane, dimethylaminopentamethyldisilane, or dimethylaminodimethyldisilane, or a combination of two or more thereof.
- 24. (Original) The method according to claim 14, wherein the fluoro-carbon film comprises a nitrated fluoro-carbon film

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25. (Original) The method according to claim 14, further comprising:

depositing a metal-containing film onto the treated surface of the fluoro-carbon film, wherein the surface termination improves adhesion of the metal-containing film to the fluoro-carbon film.

26. (Original) The method according to claim 25, wherein the metal-containing film comprises tantalum.